

### **Abstract**

The present invention relates to a receiver device and method of receiving a radio signal, wherein radio signals are received through at least two respective different receiving paths, combined and processed in a common multi-carrier path. In particular, a carrier of the common multi-carrier path is allocated to each channel signal provided in the combined signals. Signals received from different antenna elements, e.g. sector antennas, can thus be combined together and fed to just one multi-carrier receiver, so that hardware requirements are significantly reduced.